

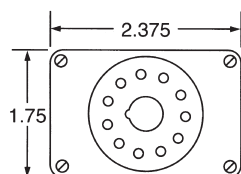
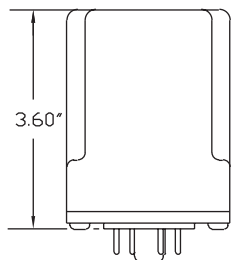
OPERATION

The ATC Diversified **SPM Series** Single Channel Seal Failure module is a specialized control for monitoring the **shaft seal** of a **submersible pump motor**. A leak is detected by sensing the position of a resistive float switch installed in the seal cavity. When the resistance drops below the sensitivity rating, the output relay energizes and the LED illuminates.

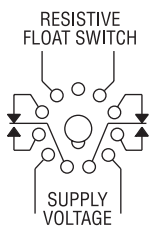


Single Channel Seal Failure Alarm

DIMENSIONS (INCHES)



WIRING



RB-11/PF013A

MODEL NUMBER

| | | | | |
|----------------------------------|-----|-----|-----|------|
| MODEL NUMBER | SPM | 120 | AAA | |
| SENSITIVITY | | | | |
| 470 Ω ±10% Fixed | | | | 470 |
| 300 Ω to 10K Ω ±10% Adjustable | | | | 10K |
| 4.7K Ω to 100K Ω ±10% Adjustable | | | | 100K |

SPECIFICATIONS

| | | | |
|---------------------------|---|-------------------------------|--|
| CONTROL VOLTAGE | 120 VAC, 50/60 Hz | | |
| SWITCH VOLTAGE | 9 VDC | | |
| ISOLATION | 2500 Volts | | |
| POWER REQUIRED | 2 VA | | |
| DUTY CYCLE | Continuous | | |
| SENSITIVITY | 470 Ω ±10% Fixed 300 Ω to 10K Ω ±10% Adjustable 4.7K Ω to 100K Ω ±10% Adjustable | | |
| CONTACT RATING | DPDT, 10 A @ 250 VAC Resistive, 360 VA Inductive | | |
| RESPONSE TIMES | Operate | 15 ms (approximately) | |
| | Release | 8 ms (approximately) | |
| LIFE EXPECTANCY | Mechanical 10,000,000 Operations (Minimum) Electrical 50,000 Operations @ Rated Load | | |
| INDICATORS | Red LED illuminates when leak is detected | | |
| TEMPERATURE RATING | Operate | -4° to 131°F (-20° to +55°C) | |
| | Storage | -40° to 185°F (-40° to +85°C) | |
| ENCLOSURE | 11-Pin plug-in "A" style enclosure | | |
| WEIGHT | 8 oz. | | |